



Milwaukee County

Employees' Retirement System
of Milwaukee County
Monthly Update
December 31, 2012

Total Fund Composite

Manager Status

Market Value: \$1,743.0 Million and 100.0% of Fund

Investment Manager	Asset Class	Status	Reason
J.P. Morgan	Core Fixed Income	In Compliance	---
Mellon Capital	Core Fixed Income	In Compliance	---
Boston Partners	Large-Cap Value	In Compliance	---
Mellon Capital	Large-Cap Core	In Compliance	---
Artisan Partners	Mid-Cap Growth	Alert	Organizational Issues
Geneva Capital	Mid-Cap Growth	In Compliance	---
AQR	Small-Cap Value	On Notice	Performance
Fiduciary Management	Small-Cap Value	In Compliance	---
NTGI ACWI Ex-US	Non-U.S. All-Cap Core	In Compliance	---
Barings	Non-U.S. Large-Cap Core	In Compliance	---
GMO Small-Cap	Non-U.S. Small-Cap Value	In Compliance	---
Barings EM	Emerging Markets	Alert	Performance
ABS	Hedged Equity Hedge FoF	In Compliance	---
K2	Hedged Equity Hedge FoF	Alert	Organizational Issues
American Realty Advisors	Core Real Estate	In Compliance	---
Morgan Stanley	Core Real Estate	In Compliance	---
UBS	Core Real Estate	In Compliance	---
IFM	Core Infrastructure	In Compliance	---
J.P. Morgan	Core Infrastructure	In Compliance	---
Adams Street	Private Equity	In Compliance	---
Siguler Guff	U.S. Private Equity FoF	In Compliance	---

Investment Manager Evaluation Terminology

The following terminology has been developed by Marquette Associates to facilitate efficient communication among the Investment Manager, Investment Consultant, and the Plan Sponsor. Each term signifies a particular status with the Fund and any conditions that may require improvement. In each case, communication is made only after consultation with the Trustees and/or the Investment Committee of the Plan.

In Compliance – The investment manager states it is acting in accordance with the Investment Policy Guidelines.

Alert – The investment manager is notified of a problem in performance (usually related to a benchmark or volatility measure), a change in investment characteristics, an alteration in management style or key investment professionals, and/or any other irregularities.

On Notice – The investment manager is notified of continued concern with one or more Alert issues. Failure to improve upon stated issues within a specific time frame justifies termination.

Termination – The Trustees have decided to terminate the investment manager. The investment manager is notified and transition plans are in place.

Total Fund Composite

Market Value: \$1,743.0 Million and 100.0% of Fund

Ending December 31, 2012

	Asset Class	Market Value (\$)	3 Mo Net Cash Flows (\$)	% of Portfolio	Policy %	Policy Difference (\$)
Total Fund Composite		1,742,991,164	-44,495,519	100.0	100.0	0
Fixed Income Composite		450,253,006	-15,150,717	25.8	29.0	-55,214,414
J.P. Morgan	Core Fixed Income	335,610,047	-138,250	19.3		
Mellon Capital	Core Fixed Income	114,642,959	-15,012,467	6.6		
U.S. Equity Composite		416,992,936	-15,392,437	23.9	23.0	16,104,969
Boston Partners	Large-Cap Value	124,932,976	-8,063,608	7.2	7.0	2,923,595
Mellon Capital	Large-Cap Core	110,716,470	-10,984	6.4	6.0	6,137,000
Artisan Partners	Mid-Cap Growth	52,240,930	-81,951	3.0	2.5	8,666,151
Geneva Capital	Mid-Cap Growth	39,955,873	-54,459	2.3	2.5	-3,618,906
AQR	Small-Cap Value	44,449,277	-101,295	2.6	2.5	874,498
Fiduciary Management	Small-Cap Value	44,697,411	-7,080,141	2.6	2.5	1,122,632
International Equity Composite		348,646,991	0	20.0	18.0	34,908,564
NTGI ACWI Ex-US	Non-U.S. All-Cap Core	93,547,383	0	5.4	6.0	-11,032,087
Barings	Non-U.S. Large-Cap Core	120,043,874	0	6.9	6.0	15,464,404
GMO Small-Cap	Non-U.S. Small-Cap Value	74,586,473	0	4.3	3.0	22,296,738
Barings EM	Emerging Markets	60,469,261	0	3.5	3.0	8,179,526
Hedged Equity Composite		182,298,936	-3,800,000	10.5	10.0	7,999,819
ABS	Hedged Equity Hedge FoF	90,674,737	-3,800,000	5.2	5.0	3,525,178
K2	Hedged Equity Hedge FoF	91,624,199	0	5.3	5.0	4,474,641
Real Estate Composite		127,526,961	-1,677,388	7.3	7.0	5,517,579
American Realty Advisors	Core Real Estate	33,348,690	-492,803	1.9		
Morgan Stanley	Core Real Estate	78,451,621	-1,028,157	4.5		
UBS	Core Real Estate	15,726,178	-156,427	0.9		
Infrastructure Composite		127,854,300	-10,916,493	7.3	7.0	5,844,918
IFM	Core Infrastructure	67,509,448	-10,000,000	3.9	3.5	6,504,757
J.P. Morgan	Core Infrastructure	60,344,852	-916,493	3.5	3.5	-659,839

Total Fund Composite

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Ending December 31, 2012

	Asset Class	Market Value (\$)	3 Mo Net Cash Flows (\$)	% of Portfolio	Policy %	Policy Difference (\$)
Private Equity Composite		48,858,851	7,640,161	2.8	6.0	-55,720,619
Progress	U.S. Private Equity FoF	28,518	0	0.0		
Brinson 1998	U.S. Private Equity FoF	70,777	0	0.0		
Brinson 1999	U.S. Private Equity FoF	336,624	0	0.0		
Brinson 2000	U.S. Private Equity FoF	1,062,402	-147,532	0.1		
Brinson 2001	U.S. Private Equity FoF	2,209,118	-155,675	0.1		
Brinson 2002	U.S. Private Equity FoF	1,433,115	-191,117	0.1		
Brinson 2003	U.S. Private Equity FoF	1,215,564	-89,778	0.1		
Brinson 2004	U.S. Private Equity FoF	1,889,034	-173,913	0.1		
Adams Street 2005	U.S. Private Equity FoF	7,457,613	-174,087	0.4		
Adams Street 2009	U.S. Private Equity FoF	12,426,322	1,332,263	0.7		
Adams Street 2012	Global Divers. Private Equity FoF	2,243,629	440,000	0.1		
Siguler Guff	U.S. Private Equity FoF	18,486,135	6,800,000	1.1		
Total Cash Equivalents		40,559,183	-5,198,645	2.3	0.0	40,559,183

Total Fund Composite

Annualized Performance (Net of Fees)

Market Value: \$1,743.0 Million and 100.0% of Fund

Ending December 31, 2012

	1 Mo	3 Mo	YTD	1 Yr	2 Yrs	3 Yrs	4 Yrs	5 Yrs	7 Yrs	10 Yrs
Total Fund Composite	1.5%	1.8%	11.0%	11.0%	5.5%	7.7%	10.3%	2.8%	4.8%	7.9%
<i>Total Fund Benchmark</i>	1.2%	1.7%	10.2%	10.2%	5.5%	7.8%	10.7%	2.5%	4.7%	7.4%
Fixed Income Composite	-0.1%	0.4%	4.7%	4.7%	6.0%	6.3%	8.5%	6.4%	6.3%	6.6%
<i>Barclays Aggregate</i>	-0.1%	0.2%	4.2%	4.2%	6.0%	6.2%	6.1%	5.9%	5.9%	5.2%
U.S. Equity Composite	1.9%	0.8%	16.2%	16.2%	7.0%	11.0%	15.9%	2.6%	4.6%	8.3%
<i>Dow Jones U.S. Total Stock Market</i>	1.2%	0.2%	16.4%	16.4%	8.5%	11.4%	15.5%	2.2%	4.5%	7.9%
International Equity Composite	3.7%	5.4%	16.5%	16.5%	0.7%	4.5%	10.2%	-3.8%	0.0%	4.5%
<i>MSCI ACWI ex USA Gross</i>	3.5%	5.9%	17.4%	17.4%	0.9%	4.3%	12.7%	-2.4%	4.0%	10.2%
Hedged Equity Composite	1.3%	1.9%	6.9%	6.9%	1.2%	--	--	--	--	--
<i>HFRX Equity Hedge Index</i>	0.4%	1.4%	4.8%	4.8%	-7.9%	-2.6%	1.1%	-4.9%	-1.8%	0.7%
<i>Russell 3000</i>	1.2%	0.2%	16.4%	16.4%	8.4%	11.2%	15.3%	2.0%	4.3%	7.7%
<i>MSCI ACWI</i>	2.3%	2.9%	16.1%	16.1%	3.7%	6.6%	13.0%	-1.2%	3.5%	8.1%
Real Estate Composite	2.2%	2.2%	10.8%	10.8%	11.9%	12.7%	17.9%	3.5%	4.4%	10.7%
<i>Custom Real Estate Benchmark</i>	0.0%	0.0%	7.6%	7.6%	11.2%	12.5%	17.4%	0.9%	3.7%	10.2%
<i>NFI</i>	0.0%	0.0%	7.6%	7.6%	11.2%	12.5%	-0.2%	-2.4%	2.3%	5.5%
Infrastructure Composite	1.0%	0.9%	9.0%	9.0%	8.3%	--	--	--	--	--
<i>CPI +4%</i>	0.3%	0.5%	6.1%	6.1%	6.6%	6.2%	6.4%	5.9%	6.3%	6.5%
Private Equity Composite	0.0%	0.0%	9.3%	9.3%	9.0%	11.9%	11.9%	4.3%	10.0%	12.1%
<i>Venture Economics All PE</i>	0.0%	0.0%	5.1%	5.1%	7.3%	10.9%	11.9%	4.3%	8.5%	11.9%

Investment Manager

Annualized Performance (Net of Fees)

Market Value: \$1,743.0 Million and 100.0% of Fund

Ending December 31, 2012

	1 Mo	3 Mo	YTD	1 Yr	2 Yrs	3 Yrs	4 Yrs	5 Yrs	7 Yrs	10 Yrs
Total Fund Composite	1.5%	1.8%	11.0%	11.0%	5.5%	7.7%	10.3%	2.8%	4.8%	7.9%
<i>Total Fund Benchmark</i>	1.2%	1.7%	10.2%	10.2%	5.5%	7.8%	10.7%	2.5%	4.7%	7.4%
Fixed Income Composite	-0.1%	0.4%	4.7%	4.7%	6.0%	6.3%	8.5%	6.4%	6.3%	6.6%
<i>Barclays Aggregate</i>	-0.1%	0.2%	4.2%	4.2%	6.0%	6.2%	6.1%	5.9%	5.9%	5.2%
J.P. Morgan	-0.1%	0.4%	4.9%	4.9%	6.0%	6.0%	6.6%	6.1%	6.0%	--
<i>Barclays Aggregate</i>	-0.1%	0.2%	4.2%	4.2%	6.0%	6.2%	6.1%	5.9%	5.9%	5.2%
Mellon Capital	-0.2%	0.2%	4.2%	4.2%	6.0%	6.2%	6.0%	5.9%	5.8%	5.2%
<i>Barclays Aggregate</i>	-0.1%	0.2%	4.2%	4.2%	6.0%	6.2%	6.1%	5.9%	5.9%	5.2%
U.S. Equity Composite	1.9%	0.8%	16.2%	16.2%	7.0%	11.0%	15.9%	2.6%	4.6%	8.3%
<i>Dow Jones U.S. Total Stock Market</i>	1.2%	0.2%	16.4%	16.4%	8.5%	11.4%	15.5%	2.2%	4.5%	7.9%
Boston Partners	2.3%	1.4%	21.0%	21.0%	10.6%	11.5%	15.2%	3.2%	5.7%	9.3%
<i>Russell 1000 Value</i>	2.1%	1.5%	17.5%	17.5%	8.6%	10.9%	13.0%	0.6%	3.3%	7.4%
Mellon Capital	0.9%	-0.4%	16.0%	16.0%	8.8%	10.8%	14.5%	1.6%	4.1%	7.1%
<i>S&P 500</i>	0.9%	-0.4%	16.0%	16.0%	8.8%	10.9%	14.6%	1.7%	4.1%	7.1%
Artisan Partners	2.1%	1.5%	20.2%	20.2%	8.7%	16.1%	23.9%	5.9%	8.5%	11.4%
<i>Russell MidCap Growth</i>	1.8%	1.7%	15.8%	15.8%	6.7%	12.9%	20.5%	3.2%	5.4%	10.3%
Geneva Capital	0.7%	-0.7%	--	--	--	--	--	--	--	--
<i>Russell MidCap Growth</i>	1.8%	1.7%	15.8%	15.8%	6.7%	12.9%	20.5%	3.2%	5.4%	10.3%
AQR	3.6%	2.0%	10.8%	10.8%	1.2%	8.7%	13.7%	1.9%	--	--
<i>Russell 2000 Value</i>	4.2%	3.2%	18.0%	18.0%	5.6%	11.6%	13.8%	3.5%	4.1%	9.5%
Fiduciary Management	2.5%	1.3%	10.7%	10.7%	2.9%	9.6%	--	--	--	--
<i>Russell 2000 Value</i>	4.2%	3.2%	18.0%	18.0%	5.6%	11.6%	13.8%	3.5%	4.1%	9.5%
International Equity Composite	3.7%	5.4%	16.5%	16.5%	0.7%	4.5%	10.2%	-3.8%	0.0%	4.5%
<i>MSCI ACWI ex USA Gross</i>	3.5%	5.9%	17.4%	17.4%	0.9%	4.3%	12.7%	-2.4%	4.0%	10.2%
NTGI ACWI Ex-US	3.6%	5.8%	--	--	--	--	--	--	--	--
<i>MSCI ACWI ex USA IMI Gross</i>	3.6%	5.8%	17.6%	17.6%	0.6%	4.6%	13.4%	-2.1%	4.1%	10.6%
Barings	1.4%	2.0%	13.2%	13.2%	0.8%	3.1%	9.7%	-4.3%	--	--
<i>MSCI EAFE</i>	3.2%	6.6%	17.3%	17.3%	1.5%	3.6%	10.0%	-3.7%	2.2%	8.2%
GMO Small-Cap	6.7%	10.3%	24.0%	24.0%	2.9%	8.7%	--	--	--	--
<i>MSCI EAFE Small Cap Gross</i>	4.1%	6.0%	20.4%	20.4%	0.8%	7.5%	16.3%	-0.5%	2.5%	12.3%
Barings EM	5.2%	6.0%	17.1%	17.1%	-4.2%	2.5%	--	--	--	--
<i>MSCI Emerging Markets</i>	4.9%	5.6%	18.2%	18.2%	-1.8%	4.7%	19.6%	-0.9%	8.4%	16.5%

Investment Manager

Annualized Performance (Net of Fees)

Market Value: \$1,743.0 Million and 100.0% of Fund

Ending December 31, 2012

	1 Mo	3 Mo	YTD	1 Yr	2 Yrs	3 Yrs	4 Yrs	5 Yrs	7 Yrs	10 Yrs
Hedged Equity Composite	1.3%	1.9%	6.9%	6.9%	1.2%	--	--	--	--	--
HFRX Equity Hedge Index	0.4%	1.4%	4.8%	4.8%	-7.9%	-2.6%	1.1%	-4.9%	-1.8%	0.7%
Russell 3000	1.2%	0.2%	16.4%	16.4%	8.4%	11.2%	15.3%	2.0%	4.3%	7.7%
MSCI ACWI	2.3%	2.9%	16.1%	16.1%	3.7%	6.6%	13.0%	-1.2%	3.5%	8.1%
ABS	1.3%	1.8%	5.2%	5.2%	1.0%	--	--	--	--	--
HFRX Equity Hedge Index	0.4%	1.4%	4.8%	4.8%	-7.9%	-2.6%	1.1%	-4.9%	-1.8%	0.7%
Russell 3000	1.2%	0.2%	16.4%	16.4%	8.4%	11.2%	15.3%	2.0%	4.3%	7.7%
MSCI ACWI	2.3%	2.9%	16.1%	16.1%	3.7%	6.6%	13.0%	-1.2%	3.5%	8.1%
K2	1.3%	2.1%	8.8%	8.8%	1.4%	--	--	--	--	--
HFRX Equity Hedge Index	0.4%	1.4%	4.8%	4.8%	-7.9%	-2.6%	1.1%	-4.9%	-1.8%	0.7%
Russell 3000	1.2%	0.2%	16.4%	16.4%	8.4%	11.2%	15.3%	2.0%	4.3%	7.7%
MSCI ACWI	2.3%	2.9%	16.1%	16.1%	3.7%	6.6%	13.0%	-1.2%	3.5%	8.1%
Real Estate Composite	2.2%	2.2%	10.8%	10.8%	11.9%	12.7%	17.9%	3.5%	4.4%	10.7%
Custom Real Estate Benchmark	0.0%	0.0%	7.6%	7.6%	11.2%	12.5%	17.4%	0.9%	3.7%	10.2%
NFI	0.0%	0.0%	7.6%	7.6%	11.2%	12.5%	-0.2%	-2.4%	2.3%	5.5%
American Realty Advisors	2.2%	2.2%	10.2%	10.2%	12.0%	--	--	--	--	--
NFI	0.0%	0.0%	7.6%	7.6%	11.2%	12.5%	-0.2%	-2.4%	2.3%	5.5%
Morgan Stanley	2.7%	2.7%	11.7%	11.7%	14.1%	--	--	--	--	--
NFI	0.0%	0.0%	7.6%	7.6%	11.2%	12.5%	-0.2%	-2.4%	2.3%	5.5%
UBS	0.0%	-0.3%	--	--	--	--	--	--	--	--
NFI	0.0%	0.0%	7.6%	7.6%	11.2%	12.5%	-0.2%	-2.4%	2.3%	5.5%
Infrastructure Composite	1.0%	0.9%	9.0%	9.0%	8.3%	--	--	--	--	--
CPI +4%	0.3%	0.5%	6.1%	6.1%	6.6%	6.2%	6.4%	5.9%	6.3%	6.5%
IFM	2.0%	1.7%	11.5%	11.5%	9.1%	--	--	--	--	--
CPI +4%	0.3%	0.5%	6.1%	6.1%	6.6%	6.2%	6.4%	5.9%	6.3%	6.5%
J.P. Morgan	0.0%	0.0%	6.2%	6.2%	6.5%	--	--	--	--	--
CPI +4%	0.3%	0.5%	6.1%	6.1%	6.6%	6.2%	6.4%	5.9%	6.3%	6.5%

Total Fund Composite

Fee Schedule

Market Value: \$1,743.0 Million and 100.0% of Fund

Asset Class	Investment Manager	Fee Schedule	Expense Ratio & Estimated Annual Fee ¹	Industry Average ²
Core Fixed Income	J.P. Morgan	0.20% on the first \$100 million 0.15% on the Balance	0.16% \$553,415	0.24%
Core Fixed Income	Mellon Capital	0.04% on the first \$200 million 0.02% on the Balance	0.04% \$45,857	0.08%
Large-Cap Value	Boston Partners	0.40% on the first \$15 million 0.30% on the next \$25 million 0.20% on the next \$25 million 0.15% on the next \$35 million 0.10% on the Balance	0.21% \$262,433	0.51%
Large-Cap Core	Mellon Capital	0.04% on the first \$200 million 0.02% on the Balance	0.04% \$44,287	0.09%
Mid-Cap Growth	Artisan Partners	0.80% on the first \$50 million 0.60% on the next \$50 million 0.50% on the Balance	0.79% \$413,446	0.68%
Mid-Cap Growth	Geneva Capital	0.55% on the Balance	0.55% \$219,757	0.78%
Small-Cap Value	AQR	1.00% on the first \$25 million 0.85% on the next \$50 million 0.75% on the Balance	0.93% \$415,319	0.95%
Small-Cap Value	Fiduciary Management	0.70% on the first \$10 million 0.65% on the next \$40 million 0.60% on the next \$25 million 0.50% on the Balance	0.66% \$295,533	0.95%
Non-U.S. All-Cap Core	NTGI ACWI Ex-US	0.08% on the Balance	0.08% \$74,838	0.75%
Non-U.S. Large-Cap Core	Barings	0.75% on the Balance	0.75% \$900,329	0.68%
Non-U.S. Small-Cap Value	GMO Small-Cap	0.75% on the Balance	0.75% \$559,399	1.16%
Emerging Markets	Barings EM	0.75% on the Balance	0.75% \$453,519	0.92%
Hedged Equity Hedge FoF	ABS	0.85% on the Balance *redemptions quarterly with 45 days notice	0.85% \$770,735	1.37%
Hedged Equity Hedge FoF	K2	0.90% on the Balance *redemptions quarterly with 91 days notice	0.90% \$824,618	1.37%

Total Fund Composite

Fee Schedule

Market Value: \$1,743.0 Million and 100.0% of Fund

Asset Class	Investment Manager	Fee Schedule	Expense Ratio & Estimated Annual Fee ¹	Industry Average ²
Core Real Estate	American Realty Advisors	0.95% on the Balance	0.95% \$316,813	1.03%
Core Real Estate	Morgan Stanley	0.90% on the Balance	0.90% \$706,065	1.03%
Core Real Estate	UBS	0.955% on the first \$10 million 0.825% on the next \$15 million 0.805% on the next \$25 million 0.79% on the next \$50 million 0.67% on the next \$150 million 0.60% on the Balance	0.91% \$142,741	1.03%
Core Infrastructure	IFM	1.25% on the Balance Performance Fee: 20% of return above 8% on a rolling three year basis	1.25% \$843,868	1.80%
Core Infrastructure	J.P. Morgan	1.50% on the first \$50 million 1.55% on the Balance Performance Fee: 15% with 7% Hurdle (six year soft lock, effective lock 4.5 years)	1.51% \$910,345	1.80%
Private Equity	Adams Street	0.67% on the first \$50 million 0.60% on the Balance 10% carry on secondaries and co-invest (Effective Rate Over 15 Yr Term)	0.67% \$203,497	1.11%
U.S. Private Equity FoF	Siguler Guff	0.69% on commitment	1.49% \$276,000	2.40%
Cash Overlay	BNY Beta Management	0.025% on the Balance	0.03% \$10,106	0.20%
Total Investment Management Fees			0.53% \$9,242,920	0.75%
Custodian	BNY Mellon	\$50,000 Flat Annual Fee	\$50,000	N/A
Total Fund			0.53% \$9,292,920	

¹ Expense Ratio & Estimated Annual Fee are Based on Market Value at Month End.

² Source: 2010 Marquette Associates Investment Management Fee Study.